Title: METHOD FOR DETERMINING ATTITUDE OF AN OBJECT Attorney Docket No.: 7784-000389; Boeing Ref. No.: 01-312 (010011) Serial No. 10/006,010; Filed: 12/04/01; Inventor: Thomas P. Weismuller Mark D. Elchuk – Harness, Dickey & Pierce, P.L.C. (248-641-1600) REPLACEMENT SHEET



1/6

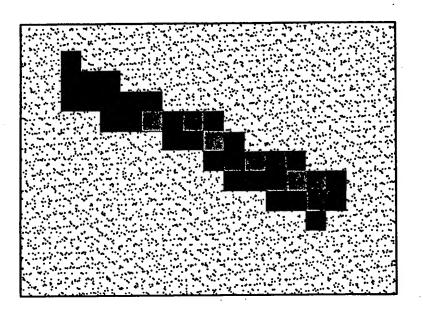


Fig-1

For Binary Comparison	•
-----------------------	---

Read number of detections in library image ( N  $_{
m library}$  )

Set the intensity of all above - zero pixels to a value of one

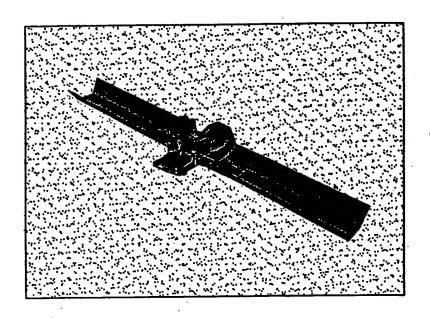
## For Full Intensity Comparison:

Read number of detections in library image (  $N_{library}$  )

Determine average pixel intensity of above - threshold pixels ( I library )

Title: METHOD FOR DETERMINING ATTITUDE OF AN OBJECT Attorney Docket No.: 7784-000389; Boeing Ref. No.: 01-312 (010011) Serial No. 10/006,010; Filed: 12/04/01; Inventor: Thomas P. Weismuller Mark D. Elchuk – Harness, Dickey & Pierce, P.L.C. (248-641-1600) REPLACEMENT SHEET

2/6



<u> Fig-3</u>

## For Binary Comparison:

Determine number of detections of object image ( N object )

Offset origin of object image (( $\overline{X}_{object}$ ,  $\overline{Y}_{object}$ )) to upper left corner = (0,0)

## For Full Intensity Comparison:

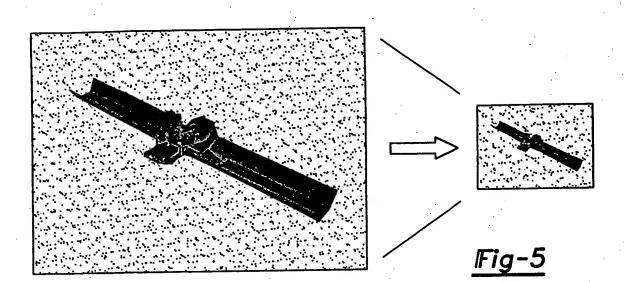
Read number of detections of object image ( N  $_{
m library}$  )

Offset origin of object image ( $(\overline{X}_{object}, \overline{Y}_{object})$ ) to upper left corner = (0, 0)

Determine average pixel intensity of above - threshold pixels (  $I_{object}$  )

Title: METHOD FOR DETERMINING ATTITUDE OF AN OBJECT Attorney Docket No.: 7784-000389; Boeing Ref. No.: 01-312 (010011) Serial No. 10/006,010; Filed: 12/04/01; Inventor: Thomas P. Weismuller Mark D. Elchuk – Harness, Dickey & Pierce, P.L.C. (248-641-1600) REPLACEMENT SHEET

3/6



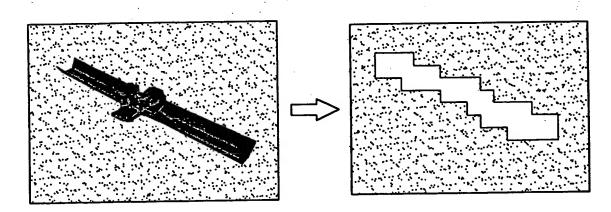


Fig-6

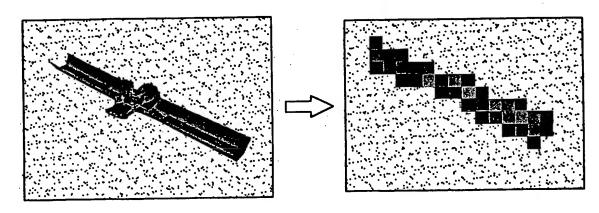


Fig-7

4/6

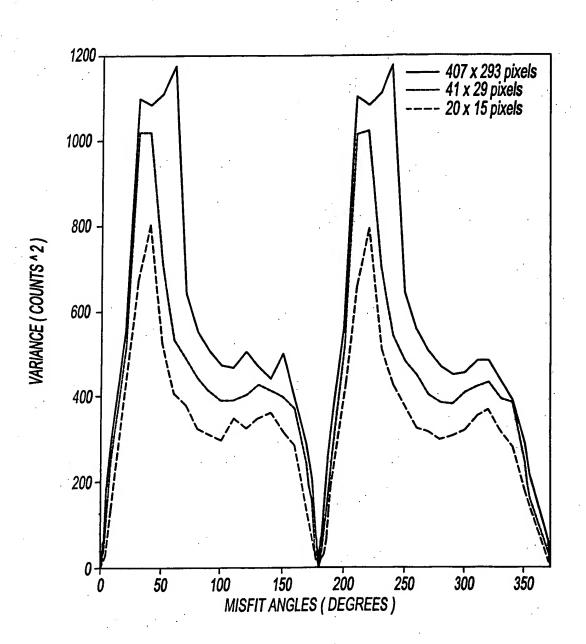


Fig-8A



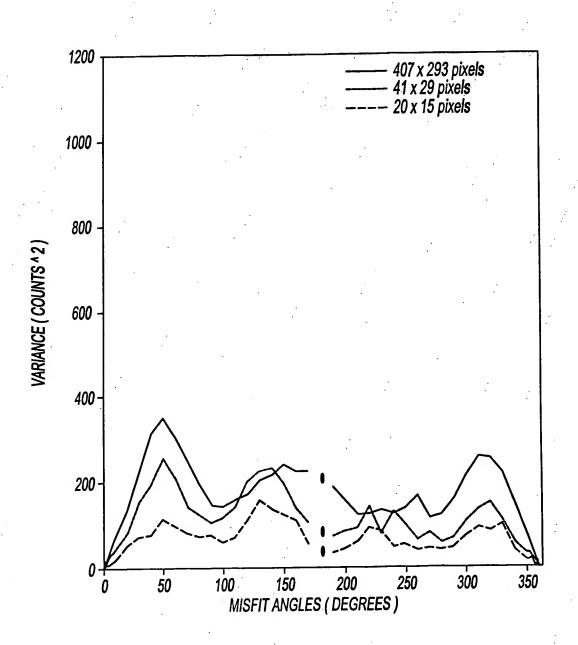


Fig-8B

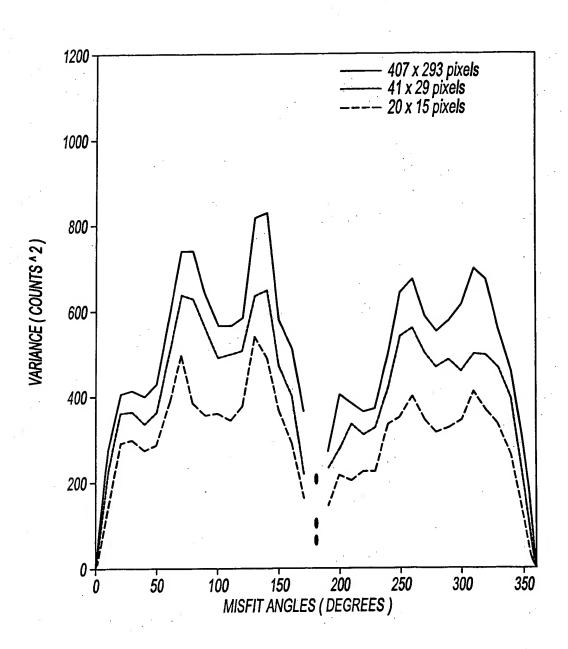


Fig-8C